Title (en)

METHOD FOR THE EXPRESS DEFINITION OF THE THERMAL CONDUCTIVITY OF SOLID MATERIALS AND DEVICE FOR REALISING THE SAME

Title (de)

VERFAHREN ZUR ABSOLUTEN FESTSTELLUNG DER WÄRMELEITFÄHIGHEIT VON FESTSTOFFEN UND VORRICHTUNG ZU IHREM GEBRAUCH

Title (fr)

PROCEDE PERMETTANT DE DETERMINER DE MANIERE EXPRESSE LA CONDUCTIVITE THERMIQUE DE MATERIAUX SOLIDES ET DISPOSITIF DE MISE EN OEUVRE DE CE PROCEDE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0043763A1] The present invention can be used in the analysis of the thermo-physical properties of solid materials, mainly those having non-uniform properties. This invention essentially relates to a method that involves heating the surfaces of models while displacing relative to each other a platform supporting said models and a heating and temperature-recording unit. The method further involves determining the boundary excess temperatures and using them for determining the target thermal conductivity value. This method is characterised in that optimal parameters of the measuring mode are selected during a preparatory adjustment process of the measuring device in order to provide measures with a maximal precision. The device of the present invention includes a measuring unit (1), an information recording and processing unit (2), a system for modifying the scanning rate (3), a signal time-delaying unit (4) and a unit for storing reference data (5).

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